


Safety Data Sheet

Product Name: Copper Pyrophosphate	SDS number: E-UI-CPC-1
Version Date: April 27, 2022	Previous Version: January 6, 2021
Validity period: Before the next change	

Section 1 Identification

Product Name: Copper Pyrophosphate
Manufacturer Name: Univertical International (Suzhou) Co., Ltd.
Address: No.567 Jinfeng Road, Suzhou New District, Jiangsu Province, P.R. China
Transportation Emergency Number: 86-0512-66610088-8412
Fax: 86-0512-66613128
Internet: www.univertical.cn
Recommended use and restrictions on use: Component in electroplating solutions

Section 2 Hazard identification

<p>Hazard Statements:</p> <p>Light blue solid powder. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.</p>
<p>GHS Classification:</p> <p>Skin corrosion/irritation Category 2</p> <p>Eye damage/irritation Category 2A</p> <p>Specific target organ toxicity (single exposure) Category 3</p>
<p>Label Content:</p> <p>Pictograms:</p>  <p>Signal Word: Warning</p>
<p>Precautionary Statements:</p> <p>Precaution:</p>

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- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Obtain, read and follow all safety instructions before use.
- Wash skin thoroughly after handling.
- Wear protective gloves/eye protection and face protection.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Use only outdoors or in a well-ventilated area.

Incident response:

- If on skin: Wash with plenty of water.
- If skin irritation occurs: Get medical help. Take off contaminated clothing and wash it before reuse.
- If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do.
- If eye irritation persists: Get medical help.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- Get medical help if you feel unwell.

Storage:

- Store in a well-ventilated place. Keep container tightly closed
- Store locked up.

Disposal:

- Dispose of contents/container in accordance with local/regional/national/international regulations.

Physical and chemical hazards:

None.

Health hazards:

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Environmental hazard:

None.

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Section 3 Composition/information on ingredients

Substance/mixture: substance

Component	CAS No.	% Content
Copper pyrophosphate Tetrahydrate	16570-28-8	≥99.0
Others	/	≤1.0

Section 4 First aid measures

First aid:

- If in eyes: Rinse immediately with water for at least 15 minutes. If you wear contact lenses and can be easily removed, take out the contact lenses. Continue to rinse. Please seek medical attention.
- If on skin: Wash thoroughly with water. Take off the contaminated clothing and wash it before reuse.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- If swallowed: Never feed anything to an unconscious person. Do not induce vomiting unless approved by the medical staff. If spontaneous vomiting occurs, avoid inhalation of the vomit by the injured person. Wash the mouth thoroughly with water immediately. Seek medical attention.

Special tips for doctors:

No data available. In all cases be prepared to treat for shock.

Section 5 Fire-fighting measures

Suitable Extinguishing Media:

Appropriate fire-fighting measures shall be adopted according to the current situation and surrounding

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environment.

Especially dangerous:

No data available

Combustion Products:

No data available

Precautions and protective measures for fire-fighting:

Evacuate the area and keep a safe distance when fighting the fire.

Section 6 Accidental release measures

Protective measures, protective equipment and emergency procedures for workers:

Restrict personnel from entering until the spill area is completely cleaned up.

Make sure that the cleanup is done by trained personnel.

Avoid dust production. Avoid breathing vapor, mist or gas.

Environmental protection measures:

Ensure adequate ventilation. Avoid breathing dust.

Do not let the spilled material enter the sewer.

The containment and removal methods of the leaked chemicals and the disposal materials used:

A small amount of leakage: avoid dust, use a clean shovel to collect in a dry, clean, covered container.

Large amount of leakage: collect and recycle or transport to waste disposal sites for disposal.

Section 7 Handling and storage

Handling:

Avoid contact with skin and eyes.

Prevent the formation of dust and aerosols.

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Where dust is generated, provide suitable exhaust equipment.

Wear appropriate personal protective equipment and keep the work area tidy.

Storage:

Store in a well-ventilated place.

Keep container tightly closed

Section 8 Exposure controls/personal protection

Exposure Limits:

Component name	Standard source	Type Standard	Value	Remarks
Copper pyrophosphate -Inhaled with copper-containing dust	GBZ 2.1	PC-TWA	1mg/m ³	
	NIOSH	TWA	1mg/m ³	

Personal Protective Equipment (PPE)

Eye Protection:

Wear safety glasses or face shield. Prepare eye washes in areas where eye contact may occur.

Skin and body protection:

Wear appropriate personal protective equipment.

Hand protection:

Avoid skin contact. The selected gloves must comply with EU 89/686/EEC regulations and EN 376 standards. When removing gloves, do not touch the outer surface of the gloves. After use, please dispose of contaminated gloves according to regulations and wash your hands.

Respiratory protection:

If you need to be exposed to a hazardous environment, please use P95 type (USA) or P1 type (EU UK 143) anti-particle respirator. If a higher level of protection is required, please use the OV/AG/P99 type (USA) or ABEK-

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P2 type (EU UK 143) anti-virus tank.

Section 9 Physical and chemical properties

Appearance: Light blue solid powder	Odor: Odorless
pH: N/A	Melting Point: No data available
Boiling Point: No data available	Flashpoint: No data available
Upper/lower Flammability Limits: N/A	Vapor Pressure: No data available
Vapor Density: No data available	Specific Gravity: No data available
Solubility: No data available	Partition coefficient of n-octanol/water: N/A
Autoignition Temperature: No data available	Decomposition temperature: No data available
Molecular Formula: $Cu_2P_2O_7 \cdot 4H_2O$	Molecular Weight: 373.11

Section 10 Stability and reactivity

Stability: Use and storage in original packaging, stable in nature
Dangerous reaction: No data available
Conditions to avoid: No data available
Incompatible materials: Strong oxidizing agents
Hazardous decomposition products: In the event of a fire, it will decompose to produce harmful substances. Phosphorus oxide, copper oxide.

Section 11 Toxicological information

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Acute toxicity-oral: No data available
Acute toxicity-dermal: No data available
Acute toxicity-inhalation: No data available
Skin corrosion/irritation: Causes skin irritation.
Eye damage/irritation: Causes serious eye irritation.
Sensitization-respiratory: No data available
Sensitization-skin: No data available
Germ cell mutagenicity: No data available
Carcinogenicity: No data available
Reproductive toxicity: No data available
Specific target organ toxicity (single exposure): May cause respiratory irritation.
Specific target organ toxicity (repeated exposure): No data available
Aspiration hazard: No data available

Section 12 Ecological Information

Hazardous to the aquatic environment – Short-term(acute) hazard: No data available
Hazardous to the aquatic environment – Long-term(chronic) hazard: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other harmful effects on the environment: No data available

Section 13 Disposal considerations

Disposal notes:

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Refer to relevant national and local regulations before disposal.

See section 8 for safety precautions for disposal personnel.

Section 14 Transport information

UN Number: None
UN Shipping Name: Non-dangerous goods
UN risk classification: None
Packing Group: None
Marine pollutants (yes/no): No
Note for transportation: None

Section 15 Regulatory information

The following laws, regulations, rules and signs have made corresponding provisions on the management of this chemical:

Occupational Disease Prevention and Control Law of the People's Republic of China:

Classification catalog of occupational hazards: Copper dust

Regulations on the safety management of hazardous chemicals:

List of hazardous chemicals: None

Section 16 Other information

References:

SDS, Univertical LLC

NIOSH Pocket Guide to Chemical Hazards <http://www.cdc.gov/niosh/npg/>

European Union ECHA <https://echa.europa.eu>

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Certification for Safe Transport of Chemical Goods

Sigma Aldrich Chemical Safety Database <https://www.sigmaaldrich.com>

Hazardous Chemical Classification Information Sheet

GHS global harmonized classification and labeling system for chemicals, *Ninth* Revised Edition

GB/Z 2.1-2019 Occupational Exposure Limits for Hazardous Factors in the Workplace Part 2 Chemical

Hazardous Factors

http://www.unece.org/trans/danger/publi/ghs/ghs_rev03/03files_e.html

Recommendations on the Transport of Dangerous Goods, Model Regulations, *22nd* Revised Edition

GB 30000

GB/T 17519-2013 Guidelines for the preparation of chemical safety technical specifications

GB/T 16483-2008 Chemical safety technical specification content and item sequence.

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